5

10

15

20

25

30

WHAT IS CLAIMED IS:

- 1. A process of producing a molded article from a composition comprising a syndiotactic vinyl aromatic polymer, comprising:
- a) molding the composition comprising a syndiotactic vinyl aromatic polymer, wherein the syndiotactic vinyl aromatic polymer has a residual vinyl aromatic monomer content of less than 0.3 parts per 100 parts syndiotactic vinyl aromatic polymer, at a temperature of from 265°C to 305°C to produce a molded article;
- b) heat treating the molded article at a temperature of 210°C to 230°C for at least 2 minutes to thermally initiate free radical polymerization of the residual monomer such that the molded article has a residual vinyl aromatic monomer content of less than 0.05 per 100 parts syndiotactic vinyl aromatic polymer.
- 2. The process of Claim 1 wherein the residual vinyl aromatic monomer content of the syndiotactic vinyl aromatic polymer is less than 500 ppm based on the total weight of the syndiotactic vinyl aromatic polymer.
- 3. The process of Claim 1, wherein the syndiotactic vinyl aromatic polymer is syndiotactic polystyrene.
- 4. The process of Claim 1, wherein the composition of the syndiotactic vinyl aromatic polymer additionally comprises glass filler.
 - 5. The process of Claim 1, wherein the composition comprises:
 - 22 to 100 weight percent syndiotactic styrene homopolymer having less than 500 ppm residual monomer content,
 - 0 to 1 weight percent heat stabilizer,
 - 0 to 2 weight percent crystallization nucleator,
 - 0 to 5 weight percent lubricant,
 - 0 to 20 weight percent impact modifier,
 - 0 to 45 weight percent glass filler, and
 - 0 to 10 weight percent compatibilizer,

wherein all weight percents are based on the total weight of the composition.

- 6. An article produced by the process of Claim 1.
- 7. An article produced by the process of Claim 4.
- 8. The article of Claim 7 which is an article useful for food applications.